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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/412,099	10/04/1999	AKRAM M. HOSAIN	NORT-0013-US	9210
7590 01/20/2004		EXAMINER		NER
DAN C HU			PAN, YUWEN	
TROP PRUNER HU & MILES P C 8554 KATY FREEWAY			ART UNIT	PAPER NUMBER
SUITE 100			2682	
HOUSTON, T	X 77024		DATE MAILED: 01/20/2004 15	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/412,099	HOSAIN ET AL.			
		Examiner -	Art Unit			
		Yuwen Pan	2682			
Period fo	The MAILING DATE of this communication apor Reply	ppears on the cover sheet with the c	correspondence address			
THE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period reto reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a reply be tir ply within the statutory minimum of thirty (30) day d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed on 17 (<u>October 2003</u> .				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims					
 4) Claim(s) 1-3,5-8,16-22 and 24-39 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-3,5-8,16-22 and 24-39 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
•	ion Papers	·				
10)	The specification is objected to by the Examin The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examin Theorem 1.	cepted or b) objected to by the edrawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
.—	under 35 U.S.C. §§ 119 and 120					
12) a 12) a 13) A 13) A 14) A	Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea See the attached detailed Office action for a list Acknowledgment is made of a claim for domes ince a specific reference was included in the file 7 CFR 1.78. a) The translation of the foreign language process Acknowledgment is made of a claim for domes acknowledgment is made of a claim for domes are ference was included in the first sentence of the	nts have been received. Into have been received in Applicate ority documents have been received in Applicate (PCT Rule 17.2(a)). In the certified copies not receive the priority under 35 U.S.C. § 119(irst sentence of the specification of the priority under 35 U.S.C. §§ 120.	ion No ed in this National Stage ed. e) (to a provisional application) r in an Application Data Sheet. ceived. and/or 121 since a specific			
Attachmer		_				
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informal F	Patent Application (PTO-152)			

Page 2

Application/Control Number: 09/412,099

Art Unit: 2682

DETAILED ACTION

1. Amendment received on 7/21/03 has been entered.

Response to Arguments

2. In view of the Appeal brief filed on 10/17/03, PROSECUTION IS HEREBY REOPENED. A new ground rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

- 3. Claims 1-3, 5, 7, 8, 16-19, 21, 22, 24-31, 34-38 are still anticipated by Rai et al (US006377982B1). The applicants argue that Rai doesn't disclose that the account unit has an entry to indicate a quality of service and other entry to indicated mobility management. The examiner disagrees because Rai teaches both entries (see column 18 and lines 55-65, column 19 and lines 55-60). Please see detail rejection below.
- 4. A new ground rejection is set for that a new reference is cited for claim 20 only because previous reference is owned by the same person or subject to an obligation of assignment to the same person at the time the invention was made.

Art Unit: 2682

Claim Rejections - 35 USC § 102

Page 3

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1-3, 5, 7, 8, 16-19, 21, 22, 24-31, 34-38 are rejected under 35 U.S.C. 102(e) as being anticipated by Rai et al (US006377982B1).

With respect to claim 1, Rai et al disclose a method of accounting for services provided over a packet-based network including determining a type of service (internet service or wireless service) used over the network (see column 36 and line 45-51); monitoring usage of the service (see column 36 and line 52-67); collecting accounting information based on the type of service and usage of the service (see column 2 line 56 – column 3 line 5, figure 22, and column 31, line 47-column 35, line 64), where in collecting the accounting information includes compiling the accounting information, user name, service type, etc. into an accounting unit, wherein the accounting unit has a first entry to indicate a quality of service (see column 18 and lines 60-62) provided over the packet-based network, and a second entry to indicate mobility management (see column 2 and lines 36-40, column 19 and lines 50-64).

With respect to claim 2, Rai et al further disclose transmitting the collected accounting information the at least another entity where the user is roaming (See column 26 and line 6-20).

Art Unit: 2682

With respect to claim 3, Rai et al further disclose an identifier (shared secret) with collected accounting information that is common between the first entity and the at least one other entity (see column 35-42).

With respect to claim 5, Rai et al further disclose an accounting unit having a common format for convenient exchange between entities (see column 28 and line 26-37).

With respect to claim 6, Rai et al further disclose an accounting unit including a traffic matrix segment (see column 29 and 30, numbered list only)

With respect to claim 7, Rai et al further disclose determining the type of service includes determining one of a plurality of service types, wherein collecting the accounting information comprises colleting and additional entry assigned a value to indicated a type of service (see column 38 and line 15-40, column 29 and line 5).

With respect to claim 8, Rai et al further disclose determining one of the plurality of service types include determining one of real-time communication at least another type of service, another wireless provider in different location (See column 16, and line 4-20).

With respect to claim 16, Rai et al disclose a method of accounting for services provided over a packet-based network, including communicating units of accounting information carrying information regarding usage of the packet-based network, the unit of accounting information having a predetermining format capable of being exchanged between a plurality of entities; and assigning values to entries in each unit of accounting information based on usage, the unit including an entry indicating a quality of service provided over the a packet-based network and a entry containing a network access identifier of the terminal to uniquely identify the terminal (see column 18 and lines 60-62, column 29 and 30, numbered list only).

Art Unit: 2682

With respect to claim 17, Rai et al further disclose information also includes other parameters like type of service (see column 29 and line 5).

With respect to claim 18, Rai et al further disclose assigning values to entries further includes assigning values to additional entries including entries indicating usage of a radio interface, indicating usage of a visited network, indicating usage of mobile management, an dedicating an amount of data transferred (see column 9 and lines 1-45, column 42 and lines 1-19, column 22 and lines 26-31).

With respect to claim 19, Rai et al further disclose assigning values to entries further includes assigning a value to an additional entry indicating erroneous termination of communication (see column 22 and line 33-39).

With respect to claims 21, 27, and 29, Rai et al disclose a system capable of being couple to a packet-based network including a controller to collect usage information based on a service used by a node on the packet-based network (see column 2 and lines 56-67); a storage device containing an accounting unit in which the usage information is collected, the accounting unit including a plurality of entries to identify usage element from which accounting may be derived. (see figure 2, items 48, and column 6 and lines 34-55), the accounting unit has a first entry to indicate a quality of service (see column 18 and lines 60-62) provided over the packet-based network, and a second entry to indicate mobility management (see column 2 and lines 36-40).

With respect to claim 22, Rai et al further disclose the entries of the accounting unit include an entry identifying a type of serviced used (see column 38 and line 15-40).

With respect to claim 23, Rai et al further disclose the entries of the accounting unit include an entry identifying a quality of service used (see column 19 and lines 51-67).

Art Unit: 2682

With respect to claim 24 and 25, Rai et al further disclose the entries of the accounting unit include entries indicating elements used by a mobility management, usage of a visited network, a traffic segment (see column 41, line 66-67, column 42 and line 1-19, column 9 and lines 1-45, column 29 and 30, numbered list only).

With respect to claim 26, Rai et al further disclose the accounting unit is according to a predetermined format the system further including a unit to communicate the accounting unit to another entity (see column 28 and line 26-37).

With respect to claim 28, Rai et al further disclose the accounting processor is adapted to generated billing to a subscriber base on one or more of the accounting units (see column 28 and lines 9-20).

With respect to claim 30, Rai et al further disclose the one or more storage media contain instructions that when executed causes the system to further communicate the accounting units to another entity (see column 26 and line 6-20, column 28 and line 26-37).

With respect to claim 31, Rai et al disclose a data network with an accounting system including at least two entities (home network and foreign network), the data with on or more code segments (see column 29 and 30, numbered list only) for services used on a packet based data network, the instructions when executed causing a system to receive accounting units from at least another entity; determine, from each accounting unit, usage of a service on the packet based network; and charging at least a subscriber for the usage of the service (see column 2 and lines 56-67), the accounting unit has a first entry to indicate a quality of service (see column 18 and lines 60-62) provided over the packet-based network, and a second entry to indicate mobility management (see column 2 and lines 36-40).

Page 7

Art Unit: 2682

With respect to claim 34, Rai further discloses assigning a value to the additional entry comprises assigning one of plural values corresponding to plural types of service (see column 29 and lines 5-7).

With respect to claim 35, Rai further discloses the service comprise real time communication and at least another type of service (see column 16 and lines 4-15).

With respect to claim 36-38, Rai further discloses communicating the unit of accounting information comprises communicating a traffic matrix segment having a header and plural rows, each row containing information associated with a session having a given time duration; assigning values to entries further includes assigning values to additional entries containing source and destination network address and monitoring usage of services on the packet-based network with an accounting meter, wherein assigning values to the entries is performed by the accounting meter (see column 41, line 66-67, column 42 and line 1-19, column 9 and lines 1-45, column 29 and 30).

With respect to claim 39, Rai further discloses the usage elements comprise quality of service, usage of air interface, and a network access identifier (see column 22 and lines 26-32).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 32, 33 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rai et al (US006377982B1) in view of Brown (US005740361A).

Art Unit: 2682

With respect to claim 14, Rai et al disclose a method of accounting as cited in claim 1, Rai et al do not disclose determining a metering class of the service that indicates if the service is chargeable. Brown discloses determining a metering class of the service that indicates if the service is chargeable. See column 13, line 56 –column 14, line 9 and column 16, line 22-54. It would have been obvious to one of ordinary skill in the art at the invention was made to combine the teaching of Brown with Rai et al such that information in the information field permits the service to distinguish whether the service is chargeable (see column 13 and line 56-65).

With respect to claim 32 and 33, Rai et al disclose the data structure includes a plurality of entries, the entries including a type of service, a second field indicating if the service is chargeable, a third field including an identifier identifying a node using the service, a field indicating if mobility management is provided for the node, a field indicating usage of a radio interface by the node, and a field indicating usage of a visited network by the node. See column 9 and lines 1-45; column 41, line 66-67 and column 42, line 1-19. Brown further discloses a field indicating if the service is chargeable (see column 13 and line 56-65).

9. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rai et al (US006377982B1) in view of Yost et al (US006560442B1).

Rai et al disclose a method of accounting as cited in claims 1, 16-19. Rai et al do not disclose assigning values to entries further includes assigning a value to an additional entry indicating an amount of discarded data. Yost discloses the possibility of discarded data is indicated (see column 9 and lines 45-49). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Yost with Rai et al such that the network is acknowledge the amount of data is discarded for better service.

Art Unit: 2682

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yuwen Pan whose telephone number is 703-305-7372. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 703-308-6739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-0377.

Yuwen Par

January 5, 2004

VIVIAN CHIN

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

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